



50-23 Twenty-Third Street  
Long Island City, NY 11101  
TEL: (718) 729-7200  
FAX: (718) 729-8677

## MATERIAL SAFETY DATA SHEET

DATE PREPARED: 7/19/02 SW

1. CHEMICAL PRODUCT IDENTIFICATION **METRO DESCALER**

General Use: **CLEANER FOR RECIRCULATING WATER SYSTEMS**

EMERGENCY TELEPHONE NUMBER:  
CHEMTREC 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS **A COLORLESS MILDLY IRRITATING SOLUTION.**

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200) EXPOSURE LIMITS 8 HRS. TWA (PPM)

Component	Hazard	CAS#	OSHA STEL	OSHA PEL	ACGIH TLV
<b>SULFAMIC ACID</b>	<b>CORROSIVE</b>	<b>5329-14-6</b>	<b>NONE LISTED</b>	<b>NONE LISTED</b>	<b>NONE LISTED</b>

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: **THIS POWDER MAY CAUSE SEVERE RESPIRATORY AND DIGESTIVE TRACT IRRITATION WITH POSSIBLE BURNS. MAY CAUSE SEVERE EYE AND SKIN IRRITATION WITH POSSIBLE BURNS.**

POTENTIAL HEALTH EFFECTS

INHALATION: **MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT WITH BURNING PAIN IN THE NOSE, THROAT AND PULMONARY EDEMA.** EYE CONTACT: **MAY CAUSE SEVERE EYE IRRITATION AND POSSIBLE BURNS.**

INGESTION: **MAY CAUSE GASTRO INTESTINAL TRACT IRRITATION, NAUSEA WITH POSSIBLE BURNS.** CHRONIC: **NONE**

SKIN CONTACT: **IRRITATION WITH POSSIBLE BURNS.** TARGET ORGANS: **POINT OF CONTACT.**

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: **N.D.**

4. FIRST AID MEASURES

INHALATION: **REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.** SKIN CONTACT: **WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION.**

EYE CONTACT: **RINSE WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.** INGESTION: **DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.**

NOTES TO PHYSICIAN: **NONE**

5. FIRE FIGHTING MEASURES

Flashpoint (°F) and Method: **DOES NOT BURN – WATER SOLUTION** Autoignition Temperature (°F): **N/A**

FLAMMABLE LIMITS: Ingredient: **SULFAMIC ACID** UEL: **N.D.** LEL: **N.D.**

GENERAL HAZARD: **CORROSIVE** FIRE FIGHTING EQUIPMENT: **WEAR SELF CONTAINED BREATHING APPARATUS.**

FIRE FIGHTING INSTRUCTIONS:

EXTINGUISHING MEDIA:

Foam:	<b>YES</b>	Alcohol Foam:	<b>YES</b>	CO2:	<b>YES</b>
Dry Chemical:	<b>YES</b>	Water:	<b>YES</b>	Other:	<b>NONE</b>

HAZARDOUS COMBUSTION PRODUCTS: **CARBON DIOXIDE AND CARBON MONOXIDE.**

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS:

0 – Insignificant	1 – Slight	2 – Moderate	3 – High
4 – Extreme	U – Unknown	* – No Information	

Health: **:2**  
Flammability: **:0**  
Reactivity: **:0**

SPECIAL INFORMATION: **CORROSIVE**

N/A: Not Applicable  
N/D: Not Determined  
N/E: Not Established  
\* Where no corresponding data was contained in manufacturer's MSDS, additional research is required and is available upon request.



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6. ACCIDENTAL RELEASE MEASURES

LAND SPILL: **CONTAIN AND DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL GUIDELINES.**

WATER SPILL: **PREVENT ADDITIONAL DISCHARGE OF MATERIAL. THIS MATERIAL IS WATER SOLUBLE AND MAY NOT BE RECOVERABLE.**

7. HANDLING AND STORAGE

STORAGE TEMPERATURE (°F): **ROOM TEMPERATURE**

STORAGE PRESSURE: **ATMOSPHERIC**

GENERAL: **STORE IN A COOL, DRY AREA. KEEP CONTAINER CLOSED, KEEP FROM FREEZING AND WASH AFTER HANDLING.**

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: **USE WITH APPROPRIATE VENTILATION.**

PERSONAL PROTECTION: **GOGGLES AND DUST MASK**

RESPIRATOR: **NONE**

PROTECTIVE CLOTHING: **GLOVES**

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure (mmHg)	:	<b>N.D.</b>	pH	:	<b>1.0 – 2.0</b>
Specific Gravity (Water=1)	:	<b>N.D.</b>	Odor	:	<b>NONE</b>
Solubility in Water	:	<b>COMPLETE</b>	Appearance	:	<b>OFF WHITE</b>
Freezing Point	:	<b>N/A</b>	Physical State	:	<b>POWDER</b>
Evaporation Rate (BuAc=1)	:	<b>N.D.</b>	Vapor Density (Air=1)	:	<b>N.D.</b>
Viscosity	:	<b>N/A</b>	Percent Volatile by Vol	:	<b>N.D.</b>
Boiling Point (°F)	:	<b>N.D.</b>			

10. STABILITY AND REACTIVITY

GENERAL: **STABLE BUT WILL REACT EXPLOSIVELY WITH OXIDIZING AGENTS AND NITRITE.**

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: **STRONG OXIDIZING AGENTS, STRONG ACIDS, HEAT, HYPOCHLORITES, NITRITES, AND CHLORINE.**

HAZARDOUS DECOMPOSITION PRODUCTS: **NONE**

11. TOXICOLOGICAL INFORMATION

CARCINOGENIC INFORMATION: **N/E**

CAS#: **NONE** % WT.: **N/A**

IARC: **NOT LISTED** NTP: **NOT LISTED** OSHA: **NOT LISTED** ACGIH: **NOT LISTED** OTHER: **NOT LISTED**

12. ECOLOGICAL INFORMATION: **N.D.**

13. DISPOSAL CONSIDERATION

RCRA Hazard Class: **NONE LISTED**

14. TRANSPORT INFORMATION:

DOT (Department of Transportation)

Proper Shipping Name: **SULFAMIC ACID, 8, UN2967, PG III**

Hazard Class: **CORROSIVE, 8**

Identification Number: **UN2967**

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): **ALL COMPONENTS ARE LISTED ON THE TSCA INVENTORY.**

CERCLA (Comprehensive Environmental Response Compensation, and Liability Act) **IF SPILLED, THIS PRODUCT IS NOT SUBJECT TO ANY REPORTING UNDER CERCLA.**

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories: **IMMEDIATE HEALTH HAZARD**

313 Reportable Ingredients: **THIS PRODUCT DOES NOT CONTAIN ANY SECTION 313 REPORTABLE INGREDIENTS.**

16. OTHER INFORMATION

REFERENCE: **PRODUCT FILE #F1069**

THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL. IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.

N/A: Not Applicable

N/D: Not Determined

N/E: Not Established

\* Where no corresponding data was contained in manufacturer's MSDS, additional research is required and is available upon request.

E-mail: [info@metrogroupinc.com](mailto:info@metrogroupinc.com)